

TWP Ops Pacific Teleconference Action Items 09Sep08

Local Times:

USA: 16:30 MDT Tuesday Afternoon	Direct dial-in numbers:
Darwin: 08:00 Wednesday Morning	1-303-433-3431 (international)
PNG: 08:30 Wednesday Morning	1-877-407-0183 (toll free in U.S.)
Nauru: 10:30 Wednesday Morning	Access number: 329169

PARTICIPANTS:

TWPO	ARCS#1	ARCS#2	ARCS#3
Larry Jones	Hymson Waffi	Andrew Kaierua	Krzysztof Krzton
Kim Nitschke	Taddy Baras	Franklin Teimitsi	John Glowacki
Amon Haruta	Myra Selan		Troy Culgan
Charles Brinkmann			Mike Ryczek
Monty Apple			
Clif Meyer			

Red Text indicates new info since last call

Blue Text indicates info on items discussed during call

Tasks are organized alphabetically for each site.

1. Announcements

- Krzysztof on leave from 21Aug-12Sep, **back to work on 15th**. John Glowacki is Acting Technical Team Lead during this time.
- Krzysztof will be transferring to his former position in Melbourne in October.
- **We are using the new Teleconference number for Monday and Thursday calls but still using this number for the Tuesday call - at least for now until we can determine if Manus and Nauru can call in on it.**

2. Upcoming Site Visits (no need to cover during Teleconference)

3. Manus Facility Status:

Discuss during Teleconference:

- **AWS:** 02Sep08: Met Console not transmitting. **Hymson power cycled the Sat Phone and it is now working.**
- **BBSS:** Failed sondes: **??** as of 20May08. **Were the 36 failed sondes packed up and sent to SGP? Not yet. All 34 were packed and are ready for shipment now.**
- **IRT:** DQPR 2012, 08Sep08: The IRT that was reinstalled to replace the spare appears to be not configured correctly - internally. Troy corresponded with Vic and configuration seems correct. Error may be with the IRT Prompt - does not read below 0 degrees. Waiting to hear from Vic as to how to proceed - possibly send spare from Darwin.
- **MMCR:** 09Sep08, Contact Sheet, K. Widener: **"The MMCR has quit transmitting". Would someone please take a look at the front panel of the radar's pulse controller and TWTA and see if any error lights or LEDs are illuminated and report back? When we were at Manus last month, I found that the TWTA display was not working. I fear the TWTA may have died." Need spare TWTA and CUDC shipped to Manus. There is a spare TWTA and CUDC that was shipped to Nauru and then back to Darwin again. John reports that it appears to be running ok now, but there**

may be a triggering problem. John continuing to investigate. Monty to check if spare TWTA and CUDC at SGP.

- MMCR Antenna de-condensation Unit found faulty and corroded Unit decommissioned, antenna heater and fan hard-wired. Monty emailed Kevin on 27Aug08 to determine if we need to replace this unit and left voice email on 08Sep. Kevin reports we do not need to replace unit.
- **TSI:** Contact Sheet 21Aug08: TSI lost it's IP address again, problem is caused by faulty TSI hub. The hub was sent from Darwin 21Aug as there are no spares on site. Local observer - Taddy and Hymson were instructed on replacement procedure. Exemption paperwork filed 01Sep08 and shipment in Lae. Should arrive Manus 04Sep08. Hymson to call Darwin as soon as it arrives. Amon and Darwin to follow up. Hymson installed it today but will need to work with Mike R after this call.
- **VANS:** Troy, 01Sep08: I noticed that the paint on the I- Van roof at Manus is starting to peel. The other vans appear OK. Is there appropriate paint/sealer in Manus? Hymson will check at Hardware store to see what paint is available and let us know. Monty will ask David Brough to ship appropriate paint to Manus.

Issues to monitor, no need to cover on Teleconference:

- **Anemometer cable:** We will switch over to shielded twisted pairs for the pigtail and rest of the cable. Mike Ritsche provided cable spec and ordering info. Cable ordered 08Aug08. Arrived SGP 04Sep08.

Shipments:

- **BBSS:** Shipment Darwin, 01Aug08, DHL 343 3684 892, Molecular Sieve, to Manus, 1 box.
- **BBSS, DS, GENSET:** Shipment SGP, 04Sep08, Fed X 822557852660, 240 Balloons, DS APC UPS, ARM CORE PC UIU, Genset fumes filter, to Manus, 1 box.
- **BBSS, TSI:** Shipment SGP, 09Sep08, FedEx 822557852638, Radiosondes and TSI Switch, to Manus, 4 boxes.
- **DS:** Shipment of Storevault to Darwin - box was resized and should be put on a plane today.
- **MMCR:** Shipment ORNL, 13Aug08, DHL 8932937650, 2 MMCR Data Disks, to Manus, 1 box.
- **MMCR:** Shipment Manus, 03Sep08, DHL 828 8350 475, MMCR Cal Kit (for K Widener), MMCR Antenna De-condensation Unit (for repair,) and IRT Infrared Thermometer, to SGP, 1 box.
- **MMCR:** Shipment ORNL, 08Sep08, DHL 8941146174, Data Disks, to Manus, 1 box.
- **TSI:** Shipment Darwin, 21Aug08, DHL 343 3684 903, 4 Port Network Hub, to Manus, 1 box. Rec'd at Manus 09Sep08.

4. Nauru Facility Status:

Discuss during Teleconference:

- **BBSS:** Failed sondes: Approx 3 have failed as of 02Sep08. Were the 40 failed sondes sent back to SGP? Yes and AWB submitted to SRTS.
- **BBSS:** Using Helium as of 26Aug08 due to breaker on Electrolyser Motor tripping when motor starts up. 25 full Helium cylinders left. Were empty cylinders shipped back to BOC Gases on last ship? Yes - there were 20 and 2 cradles (10/cradle).
- **Electrolyser:** Monty ordered explosion proof rated replacement motor for Electrolyser Compressor on 13Aug08. Arrived SGP on 29Aug08 and it was shipped from SGP to Nauru on 05Sep08. Amon to expedite with Mae.

- **Genset:** Diesel Fuel situation: Tank 1 (600 gallon tank) is 7/8 full. Tank 2 (1000 gallon tank) is 7/8 full. 17 full drums remaining. Did 50 additional drums arrive on last ship? Yes, but have not collected from dock yet.
- **Genset:** As of 02Sep08, the Genset is due for 3000 hr maint. Last svc at 5865, currently at 6115. Monty/Clif organizing maintenance trip with David Brough.
- **LICOR:** Need to download data and send it to Chuck Long each week. Update on last weeks trouble with Laptop? Franklin collected data yesterday and had no problem with laptop. Andrew not sure if Franklin had sent the data to Chuck yet.
- **MMCR:** Check Antenna Heater Controller to see if it is working. If not, need to hard wire to insure it runs all the time. Add to next SV Task List. Mike Ryczek reports the Antenna Heater is hard wired like Manus now.
- **OTHER:** Currently Our Airline is only going between Brisbane and Nauru once a week. Arrive Nauru on Thursday and depart Nauru on Sunday.
- **Pickup Truck:** Andrew to report on quarterly servicing.
- **Resupply Checklists are past due. Andrew will resend.**

Issues to monitor, no need to cover on Teleconference:

- **Anemometer cable:** We will switch over to shielded twisted pairs for the pigtail and rest of the cable. Mike Ritsche provided cable spec and ordering info. Cable ordered 08Aug08. Arrived SGP 04Sep08.
- **BBSS:** David Brough will organise the clearance & delivery of 20 empty helium cylinders from Nauru to BOC and let us know when they get there. The vessel is due into Brisbane about 15th Sept and subject to quarantine etc., probably deliver around 22nd to BOC.
- **Genset:** #2 tank fuel gage is faulty and spares have the wrong thread. Monty will send correct gage/fitting.
- **TSI:** V. Morris 15May08: The TSI was power-cycled but it did not correct the temperatures. The dome is now "-13.43" again and the heat sink is still "91" so both the heater and cooling fan are on at the same time. V. Morris 03Jun: Ray says we are using the correct thermistor. I recommend that we get ECO-625 moving to upgrade the control boards.

Shipments: Scarlett Lucy Voy 01: ETD Brisbane 26Aug, ETA Nauru 02Sep.

Scarlett Lucy Voy 02: Loose cargo close 23Sep, Full container close 26Sep, ETD Brisbane 04Oct, ETA Nauru 11Oct.

- **AERI, BBSS:** Shipment SGP, 21Aug08, FedEx 859558278381, AERI Expander Cooler Fans, Cooper Mirror, 120 Balloons, ARM Core PC, Desiccant Jars, Genset fumes filter, Electrolyser motor pulley, Windows XP disk. Arrived Nauru 05Sep08.
- **BBSS:** Shipment SGP, 05Sep08, Fed X 822557852649, H2GEN compressor motor, TSI 5- port hub/switch, to Nauru, 1 box. Currently still in LA and Amon is following up with Mae Chu.
- **BBSS and ORG:** Shipment SGP, 31Jul08, FedEx 790061731019, Toaster Oven for drying desiccant and ORG data cable, to Nauru, 1 box. Arrived Nauru 05Sep08.
- **BBSS:** Shipment SGP, 09Sep08, FedEx 822557852627, 120 sondes, to Nauru, 3 boxes.
- **DS:** Shipment SGP, 18Jul08, FedEx 799354602804, 3 DS Seagat HD's to Nauru, 1 box.
- **GENSET:** Shipment CTS Brisbane, 26Aug08, Scarlet Lucy Voy 1, Bill of Lading S24835, 50 drums diesel, UPS Battery, Genset parts, to Nauru.

- **MMCR:** Shipment ORNL, 28Aug08, DHL 8938186935, 2 MMCR HD's to Nauru, 1 box.
- **Resupply:** Shipment Darwin, 08Sep08, DHL 343 1272 913, Genset Exhaust parts, Pickup Truck filters, Cleaning towelettes, to Nauru, 3 boxes.
- **UPS:** Shipment SGP, 28Aug08, FedEx 822557852671, APC Smart UPS for DS, to Nauru, 1 box.

5. Darwin Status:

Discuss during Teleconference:

- **COMMS:** Monty working on obtaining 4 Dell GX620 internal Power Supplies (for small form factor "SFF") to ship to Darwin.
- **MMCR:** John Glowacki should ship 1 coax cable and 2 waveguide adapters to Manus - John will send out shortly with Resupply items. Clif ordered 2 waveguide adapters for shipment directly to Kevin. John will send 1 coax cable to Kevin. Need to obtain/build Antenna Heater Blower Box - Kevin Widener to provide more info to do so.
- **MPL:** DQPR 2005, 17Aug08: The laser temperature has dropped-out to -273 C and is currently flatlined there. The SGP CF is sending a replacement temp sensor by the next freighter out. Meanwhile, it would be a good thing to think about/plan to change the photo diode; the energy out is really too low for hi altitude results." Monty to order spare photo diode/pump when John relays the specifics for ordering. 28Aug08 Rich Coulter: Krzysztof- I have asked that a spare temp probe be sent to you. In the mean time, I see that the laser temps have somehow mysteriously returned to normal as of yesterday. John will send the info on the photo diode to Monty.
- **Personnel:** KK taking leave 21Aug and returning to work 15Sep. John Glowacki is technical team lead during this time.

Issues to monitor, no need to cover on Teleconference:

- **AERI:** Denny to send additional hatch controller parts to Darwin as spares. These arrived SGP 21Aug08. Darwin has not rec'd these parts.
- **DS:** Collector computer amber warning light is flashing - why? Trent Doyle is looking for the cause of this flashing light. Still no word on the fix for this.
- **MMCR:** Need replacement power supply, Lambda p/n LFS-4128. Clif ordered on 19Aug08.
- **SMET:** Problem with wind speed where voltage is induced on wind speed part of cable - at all sites. We will replace all the anemometer cables and pigtails at TWP and AMF. Monty/Clif ordering cable as specified by RM Young. Arrived SGP 04Sep08.

Shipments:

- **AERI, DS, MMCR, MPL, ORG:** Shipment SGP, 04Sep08, FedEx 790075499046, AERI parts, DS APC UPS, ORG Test Kit & Data Cable, MMCR Power Supply For Radian interface chassis, MPL Temp Sensor, ARM Core PC UIU, to Darwin, 1 box.
- **SMET:** Shipment Nauru, 28Aug08, Our Airline 123-22025043, Anemometer, to Darwin, 1 box.
- **TSI, MET:** Shipment, SGP, 09Sep08, Fed X 798507959345, TSI Switch, MET Signal Wire & Cable Assy, to Darwin, 1 box.

6. AMF and AAF Status - China Deployment:

HFE-M1 is the "main" site in Shouxian (AMF)

HFE-S1 is the "supplementary" site in Taihu.

The "ancillary" site is near Zhangye near Linze and is called the (AAF). It will move to Xianghe near Beijing in June. HFE is used as the suffix since

that is the central Airport code everyone decided to use from the Hefei, China airport. Chinese New Year in 2009 starts 26Jan09. Discuss concerning pack up.

Discuss during Teleconference:

- **AERI:** Need to change out AERI desiccant (molecular sieve) asap.
- **BBSS:** 08Sep08: Computer is broken so no balloon launches until GX620 has it's power supply replaced by Mike later this week.
- **COMMS:** No need to send any additional pc's to China. Darwin did send GX270 motherboard and with the spare power supplies for the GX620's, Mike Alsop should be able to get 3 pc's up and running.
- **MWR:** DQPR2008 28Aug08: Both tknd and tkxc have been failing the MAX value of 333 K since approximately 3:00 GMT on 08/27. Due to the DQO's limited monitoring capabilities at the moment for HFE, I have no way of examining the data to determine the precise time the problem occurred. Maria C., 03Sep08: tbsky23 and tbsky31 no longer failing automated QC after ~17:00 GMT on 08/30. Mike Alsop verified that precipitation was observed in the area recently so this may have been the cause of the issues with the tbsky measurements. tknd and tkxc continue to fail MAX.
- **RWP:** Dell Power Edge 2600 Computer is not working. Will ship replacement computer soon and broken pc will be shipped to SGP for repair after the deployment is over. SGP rec'd on 13Aug08: PCI-Based Radar Processor, Advantech ACP-4000BP-30RE, s/n 14438. Computer is ready to go to China from SGP. It will be shipped by Vaisala all the way to Shouxian. Shipment, SGP, 03Sep08, FedEx International 8450 7543 7600, PCI-Based Radar Processor, to Vaisala China (then on to Shouxian), 1 box. Vaisala will handle shipping all the way to Shouxian. Broken Power Edge 2600 PC should go back to SGP for hard drive replacement/repair - after the deployment.
- **SMET:** MI70 Link cable has wrong connector. USB end is fine but need a 4 pin connector on the other(219687 USB to MI70 - 4pin). Monty to follow up.
- **TKR:** Tom will make 3 Ventilator mounting plates for Tracker.
- **WACR:** Dehydrator arrived SGP on 26Aug08. Need to ship to Shouxian via LANL/DHL along with Lacie HD and Cable Ties asap.

Issues to monitor, no need to cover on Teleconference:

- AMF Ops started in Shouxian on 19May08 and 21May in Taihu.
- **AOS:** At 0200 UTC 23 August 2008, the PSAP unit in the AOS system was turned off at the direct request of Kim Nitschke to comply with CMA agreement.
- **BBSS:** Antenna falling off some sondes when removing from the box. Discussion with Herb Winston and Vaisala ongoing.
- **Genset:** Should a Cylinder Bore Deglazing be scheduled?
- **Genset:** Basler file: Shunt trip disconnected.
- **Genset:** Block heater will not be installed as it was faulty. Replacement heater arrived SGP 28Jul08.
- **MET:** Barometer s/n P0830007 disposed of in China.

Shipments: Ship all equipment to SGP and do not handcarry to China.

- **Aerosol Neutralizer:** Shipment: Global Logistics, 15Feb08, FedEx# 6616 3325 2503/781-5395-8796 Aerosol Neutralizer, to AAF Linze, 1 box. Will stay in Beijing until after Olympics and then shipped back to US.
- **AAF:** Containers to leave China by 31Oct08.

- **AAF APS-3321** (TSI AOS): Shipment, Global Logistics, 01Aug08, DHL 781-57706165, to AAF Xianghe Site, 1 box. **Rec'd 27Aug08.**
- **AAF-1 MPL:** Shipment, Global Logistics, 13Aug08, FedEx 781-57706176, MPL to AAF Xianghe Site, 1 box. **Rec'd 27Aug08.**
- **COMMS:** Shipment Darwin, 29Aug08, DHL 343 3451 243, 2 Dell Power Supplies, 1 box.
- **COMMS:** Shipment LANL, Sep08, DHL ????????, 4 Cisco Wireless Bridges, to Shouxian, 1 box.
- **COMMS:** Shipment ANL, 04Sep08, FedEx 726931625231, 2 Cisco Catalyst 2960 Series for AMF DS in Shouxian, to SGP, 2 boxes. Arrived SGP 05Sep08.
- **COMMS:** Extremely difficult to connect to internet from site. Mike working this locally.
- **RWP:** Shipment, SGP, 03Sep08, FedEx International 8450 7543 7600, PCI-Based Radar Processor, to Vaisala China (then on to Shouxian), 1 box. Vaisala will handle shipping all the way to Shouxian. Broken Power Edge 2600 PC should go back to SGP for hard drive replacement/repair - after the deployment. The FedEx shipment containing the RWP processor is stuck in customs in Beijing because FedEx cannot get a hold of anyone at the Vaisala Beijing office. Please have someone in the Beijing office contact FedEx at 800-988-1888 (toll free in China) or 10-8048-6969 (local) as soon as possible.
- **WACR:** Shipment SGP, 04Sep08, FedEx 799897772913, Seagate HD from Prosensing, to LANL, 1 box. On it's way to China.

7. SGP - Instrument repair/cal status

- **CAL** - Laptop for Cavity Radiometer at SGP: Craig Webb: 19Jun08 - Hard Drive will not boot up. Where should he send the computer since it has a LANL property tag on it? Larry requested photo of computer along with crushed hard drive and property number.
- **DS:** Receival SGP, 07Aug08, Fed X 1347941976 R0, 4 ea DS APC Smart UPS model SUA3000RM2U, from PNNL, 4 boxes. One for each TWP and AMF site DS.
- **ORG:** Shipment SGP, 25Aug08, FedEx 799366952351, ORG (s/n 04090093) from Nauru, to Optical Scientific for repair, 1 box.

Next Teleconference Call on 16Sep08